Bachelor of Engineering (Honours) / Computer Science (3785)

Chemical Engineering (CEICAH) / Computer Science (COMPA1)
T1 Entry 2024 Sample Plan

	Year 1		Year 2		Year 3		Year 4		Year 5
Term 1	COMP1511 Programming Fundamentals	**Term 1**	COMP1531 Software Engineering Fundamentals	**Term 1**	MATH2019 Engineering Mathematics 2E	**Term 1**	CEIC3004 Process Equipment Design	**Term 1**	CEIC4951 Research Thesis A
	CHEM1811 Engineering Chemistry 1A		CEIC2000 Material and Energy Systems		CEIC3000 Process Modelling and Analysis		CEIC3005 Process Plant Design		CEIC4001 Process Design Project
	COMP1521 Computer Systems Fundamentals		CEIC2001 Fluid and Particle Mechanics		COMP2511 Object-Oriented Design and Programming				
Term 2	MATH1131① Mathematics 1A	**Term 2**	COMP2521 Data Structures and Algorithms	**Term 2**	CEIC2005 Chemical Reaction Engineering	**Term 2**	CEIC3006 Process Dynamics and Control	**Term 2**	CEIC4952 Research Thesis B
	PHYS1121② Physics 1A		CEIC2002 Heat and Mass Transfer		COMP3121 Algorithm Design and Analysis OR COMP3821 Extended Algorithm Design and Analysis		CEIC3007 Chemical Engineering Lab B		Computing Elective
	CHEM1821 Engineering Chemistry 1B		MATH2089 Numerical Methods and Statistics		Computing Elective		Computing Elective		Computing Elective
Term 3	DESN1000 Introduction to Engineering Design and Innovation	**Term 3**	CEIC2007 Chemical Engineering Lab A	**Term 3**	CEIC3001 Advanced Thermodynamics and Separation	**Term 3**	CEIC4000 Environment and Sustainability	**Term 3**	CEIC4953 Research Thesis C
	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B		DESN2000 Engineering Design and Professional Practice		COMP3900 Computer Science Project		COMP4920 Professional Issues and Ethics in Information Technology		Disciplinary Elective
	Breadth Elective						Computing Elective		Computing Elective

NOTES

This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.

①Students can take MATH1131 or MATH1141 depending on term offerings ②Students can take PHYS1121 or PHYS1131 depending on term offerings

Bachelor of Engineering (Honours) / Computer Science (3785)

Chemical Engineering (CEICAH) / Computer Science (COMPA1)
T2 Entry 2024 Sample Plan

UNSW SYDNEY

	Year 1		Year 2		Year 3		Year 4		Year 5
Term 2	COMP1511 Programming Fundamentals	**Term 2**	DESN2000 Engineering Design and Professional Practice	**Term 2**	CEIC2002 Heat and Mass Transfer	**Term 2**	CEIC4000 Environment and Sustainability	**Term 2**	CEIC4951 Research Thesis A
	CHEM1821 Engineering Chemistry 1B		COMP1531 Software Engineering Fundamentals		CEIC2005 Chemical Reaction Engineering		CEIC3006 Process Dynamics and Control		**Computing Elective**
					Computing Elective		CEIC3007 Chemical Engineering Lab B		**Breadth Elective**
Term 3	MATH1131 Mathematics 1A OR MATH1141 Higher Mathematics 1A	**Term 3**	COMP2511 Object-Oriented Design and Programming	**Term 3**	COMP4920 Professional Issues and Ethics in Information Technology	**Term 3**	CEIC3001 Advanced Thermodynamics and Separation	**Term 3**	CEIC4952 Research Thesis B
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A		MATH2089 Numerical Methods and Statistics		COMP3900 Computer Science Project		**Disciplinary Elective**		**Computing Elective**
	DESN1000 Introduction to Engineering Design and Innovation		CEIC2007 Chemical Engineering Lab A		COMP2521 Data Structures and Algorithms				**Computing Elective**
Term 1	CHEM1811 Engineering Chemistry 1A	**Term 1**	CEIC2000 Material and Energy Systems	**Term 1**	COMP3121 Algorithm Design and Analysis OR COMP3821 Extended Algorithm Design and Analysis	**Term 1**	CEIC3004 Process Equipment Design	**Term 1**	CEIC4953 Research Thesis C
	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B		CEIC2001 Fluid and Particle Mechanics		CEIC3000 Process Modelling and Analysis		CEIC3005 Process Plant Design		CEIC4001 Process Design Project
	COMP1521 Computer Systems Fundamentals		MATH2019 Engineering Mathematics 2E				**Computing Elective**		

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Information is correct as of 01.05.2024 and is based on proposed prerequisites and course availability. This is to be used as a guide only and does not replace individual advice. Refer to the Handbook and Class Timetable for the relevant term to check availability for these courses. Contact The Nucleus: Student Hub for further assistance. CRICOS Provider Code 00098G

	Year 1		Year 2		Year 3		Year 4		Year 5
Term 3	COMP1511 Programming Fundamentals PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A MATH1131 Mathematics 1A OR MATH1141 Higher Mathematics 1A	Term 3	DESN1000 Introduction to Engineering Design and Innovation MATH2089 Numerical Methods and Statistics	Term 3	CEIC3001 Advanced Thermodynamics and Separation CEIC2007 Chemical Engineering Lab A DESN2000 Engineering Design and Professional Practice	Term 3	Computing Elective Computing Elective	Term 3	CEIC4951 Research Thesis A Disciplinary Elective Computing Elective
Term 1	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B COMP1531 Software Engineering Fundamentals CHEM1811 Engineering Chemistry 1A	Term 1	MATH2019 Engineering Mathematics 2E CEIC2000 Material and Energy Systems CEIC2001 Fluid and Particle Mechanics	Term 1	CEIC3004 Process Equipment Design CEIC3000 Process Modelling and Analysis COMP2511 Object-Oriented Design and Programming	Term 1	COMP3121 Algorithm Design and Analysis OR COMP3821 Extended Algorithm Design and Analysis CEIC3005 Process Plant Design COMP4920 Professional Issues and Ethics in Information Technology	Term 1	CEIC4952 Research Thesis B CEIC4001 Process Design Project
Term 2	COMP1521 Computer Systems Fundamentals CHEM1821 Engineering Chemistry 1B	Term 2	COMP2521 Data Structures and Algorithms CEIC2002 Heat and Mass Transfer CEIC2005 Chemical Reaction Engineering	Term 2	COMP3900 Computer Science Project Breadth Elective	Term 2	CEIC3006 Process Dynamics and Control CEIC3007 Chemical Engineering Lab B CEIC4000 Environment and Sustainability	Term 2	CEIC4953 Research Thesis C Computing Elective Computing Elective

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